

2018 Corn Grain Top 30 Harvest Report

Minnesota East Central [MNEC] CLEAR LAKE

A & L Peterson Farms, Inc, Ryan Peterson, Sherburne County, MN 55319



Test by: NewVenture, LLC, Ellendale, MN

PREV. CROP/HERB: Soybean
 SOIL DESCRIPTION: Hubbard-Mosford loamy sand, well drained, irrigated
 SOIL CONDITION: Conventional w/o fall till, very high P, very high K, 5.8 pH, 1.0% OM, 8.4 CEC
 PEST MANAGEMENT: Force, Atrazine 4L, Dual II Magnum, Cornerstone 5 Plus
 FERTILITY - Applied N: 21 Spring, 17 Planter, 189 Sidedress
 Applied N-P-K (units): 227-0-90
 SEEDING - RATE - ROW: May 5 35,100 /A 30" spacing
 HARVESTED - STAND: Oct 13 32,900 /A

Early-Season Test

86 - 91 Day CRM
 B2018MNEC01a

Top 30 of 36

For Gross Income (Sorted by Yield)

Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Proseed	1790VT2PRIB	VT2P,B	90	247.1	20.1	0	33.9	772	1
Golden Harvest	G89A09-3120-EZR	3120,B	89	243.0	20.2	0	33.9	758	3
Latham	LH3755VT2ProRIB	VT2P,B	87	241.9	20.1	0	32.9	755	4
Hefty	H4102VT2PRIB	VT2P,B	91	235.1	20.0	3	32.9	735	5
Pioneer	P9188AMX GC	AMX,B	91	231.6	20.5	1	32.9	721	6
Mustang	2291VT2PRIB	VT2P,B	91	231.5	20.7	3	32.4	719	7
NK Brand	NK8920-3120-EZR	3120,B	89	230.1	20.4	0	33.4	717	8
Latham	LH4147VT2ProRIB	VT2P,B	91	229.7	20.5	2	32.4	715	9
Hefty	H3922VT2P	VT2P	89	229.2	20.3	0	32.9	715	10
Thunder	6791VT2P	VT2P,B	91	228.7	20.5	0	33.9	712	11
Dahlman	R45-28VT2PRIB	VT2P,B	90	228.0	20.7	0	32.9	709	13
Enestvedt	E878VT2PRIB	VT2P,B	87	227.4	20.1	1	31.9	710	12
Latham	LH3937VT2ProRIB	VT2P,B	89	224.3	20.3	0	33.4	699	14
Golden Harvest	G88F37-3010A	3010,A	88	221.6	20.1	0	33.4	692	15
Heine	600VT2PRO GC	VT2P	91	221.3	20.0	0	33.4	692	16
NuTech	5N-886	3011,A	86	220.0	20.4	0	33.4	685	17
Dairyland	DS-9686	3000GT	86	219.2	20.5	0	33.9	682	20
Hefty	H3622VT2P	VT2P	86	218.8	20.2	0	32.4	683	19
Renk	RK287VT2P	VT2P,B	87	218.6	19.9	0	33.9	684	18
NuTech	5BN-2889	3010	89	218.5	20.1	0	32.9	682	21
Mustang	2290VT2PRIB	VT2P,B	90	214.8	20.2	0	31.0	670	22
Renk	RK408VT2P	VT2P,B	90	214.4	21.0	0	32.9	665	25
Enestvedt	E875RR	RR2	88	213.7	20.4	17	32.9	666	23
NK Brand	NK8618-3011A	3011,A	86	213.0	19.9	0	32.4	666	24
Pioneer	P9188AM GC	AM,B	91	210.4	19.8	5	33.4	659	26
Proseed	1787VT2PRIB	VT2P,B	87	207.8	20.0	13	31.5	649	28
Titan Pro	83-87 2P	VT2P,B	87	207.7	19.8	0	33.4	650	27
Latham	LH4015VT2Pro	VT2P	90	207.5	20.4	11	32.4	646	29
Proseed	1591VT2PRIB	VT2P,B	91	207.3	20.3	0	32.4	646	30
Hefty	H3712VT2PRIB	VT2P,B	87	202.7	20.0	18	32.4	633	31
Pioneer	P9492AM CK	AM,B	94	247.3	21.0	0	33.4	767	2
Averages =				218.6	20.3	2	32.9	681	
LSD (0.10) =				15.4	0.7	7			
LSD (0.25) =				8.1	0.3	4			
C.V. =				6.7					
Ed Dahle				New test site, no yield history					
ed.dahle@firstseedtests.com, (507) 456-6624									

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.25; non-GMO = \$3.25

Test Comments: *This site is a very uniform irrigated sandy location. Disease pressure was minimal on this crop as noted during an early September site visit. The ears were filled to the tip with deep kernels. The only lodging observed at harvest was some stalk lodging that was not widespread in the plot. Overall, this was a very good test plot.*

† See last page for abbreviation descriptions. Dark colored row identifies the check product found in early- and full-season tests. **Bold** yields are significantly above test average by LSD(0.10). **Italicized** brands exceed the grain moisture limit for this test. **ns** = column values not significantly different

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 PEST MANAGEMENT: Force, Atrazine 4L, Dual II Magnum, Cornerstone 5 Plus
 FERTILITY - Applied N: 21 Spring, 17 Planter, 189 Sidedress
 Applied N-P-K (units): 227-0-90
 SEEDING - RATE - ROW: May 5 35,100 /A 30" spacing
 HARVESTED - STAND: Oct 13 33,200 /A

Full-Season Test

92 - 95 Day CRM
 B2018MNEC01b

Top 30 of 36

For Gross Income (Sorted by Yield)

Average of (3) Replications

Company/Brand	Product/Brand†	Technol.†	RM	Yield Bu/A	Moisture %	Lodging %	Stand (x 1000)	Gross Income \$/Acre	Rank
Titan Pro	82-95 2P	VT2P,B	95	259.4	21.4	0	33.4	802	2
LG Seeds	LG44C27VT2PRO	VT2P	94	257.7	20.0	0	32.4	805	1
Federal	4580VT2PRIB	VT2P,B	95	248.4	20.9	0	33.9	771	3
Enestvedt	E612RR	RR2	92	243.7	20.2	0	33.4	760	4
Hefty	H4522VT2P	VT2P	95	242.4	21.2	0	32.4	750	5
Latham	LH4454VT2ProRIB	VT2P,B	94	240.7	20.7	0	33.9	748	6
Renk	8-536VT2P	VT2P	94	239.6	21.8	0	32.4	738	8
NuTech	5G-293	3110,A	93	238.6	20.3	0	32.9	744	7
Renk	RK433RR	RR2	92	236.6	20.2	0	33.9	738	9
Anderson	795R	RR2	95	236.2	20.1	0	32.4	738	10
Latham	LH4517VT2Pro	VT2P	95	236.2	20.4	0	32.9	736	11
Heine	6200VT2PRORIB GC	VT2P,B	95	236.1	20.9	0	33.9	733	12
Golden Harvest	G90Y04-3220A-EZR	3220,A,B	92	235.0	20.4	0	31.0	732	13
NK Brand	NK9227-3220A-EZR	3220,A,B	92	233.8	20.6	2	32.9	727	14
Mustang	3294VT2PRIB	VT2P,B	94	232.2	20.2	0	32.9	724	16
Pioneer	P9330AM GC	AM,B	93	231.3	20.7	0	33.9	719	19
Hefty	H4322VT2P	VT2P	93	231.2	20.0	0	34.4	723	17
Dairyland	DS-7294A	3220	94	231.2	20.5	1	32.9	720	18
Enestvedt	E652RR	RR2	95	230.9	20.6	0	33.9	718	20
Renk	RK568VT2P	VT2P,B	94	230.4	21.0	0	33.4	714	22
Dahlman	R48-28VT2PRIB	VT2P,B	95	230.2	20.6	0	33.4	716	21
Enestvedt	E656SSRIB	STX,B	95	228.7	21.5	0	33.9	706	23
Golden Harvest	G95P13-3110	3110	95	227.5	21.5	0	31.5	702	25
Federal	4440VT3PRIB	VT3P,B	94	226.0	20.2	0	34.4	705	24
Hefty	H4324SS	STX	93	224.7	21.2	0	34.8	695	27
Latham	LH4242VT2ProRIB	VT2P,B	92	224.0	20.2	0	33.9	699	26
Proseed	1794VT2PRIB	VT2P,B	94	223.2	20.5	0	32.9	695	28
Thunder	6992VT2P	VT2P	92	222.7	20.7	0	32.9	692	29
NK Brand	NK9505-3110	3110	95	222.7	20.8	0	32.9	691	31
Thunder	6993VT2P	VT2P	93	222.0	20.4	0	32.9	692	30
Pioneer	P9492AM CK	AM,B	94	234.7	21.3	0	33.9	726	15
Averages =				231.6	20.6	0	33.2	720	
LSD (0.10) =				13.5	0.6	1			
LSD (0.25) =				7.1	0.3	0			
C.V. =				5.5					
Ed Dahle ed.dahle@firstseedtests.com, (507) 456-6624				New test site, no yield history					

Yield & Income Factors: Base Moisture = 15.0% Shrink = 1.3 Drying = \$0.025 Prices: GMO = \$3.25; non-GMO = \$3.25

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Early-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Dahlman	R45-28VT2PRIB	VT2P,B	AC,P2	90					
Dairyland	DS-9686	3000GT	CM,C5,Vi,ln	86					
Dekalb	DKC35-88RIB GC	VT2P,B	AC,P2	85					
Enestvedt	E875RR	RR2	CM,C2,Vi	88					
Enestvedt	E878VT2PRIB	VT2P,B	AC,P2	87					
Golden Harvest	G88F37-3010A	3010,A	AVC,C2,Vi	88					
Golden Harvest	G89A09-3120-EZR	3120,B	AVC,C2,Vi	89					
Hefty	H3622VT2P	VT2P	HC	86					
Hefty	H3712VT2PRIB	VT2P,B	HC	87					
Hefty	H3922VT2P	VT2P	HC	89					
Hefty	H4102VT2PRIB	VT2P,B	HC	91					
Heine	600VT2PRO GC	VT2P	AC,P5V	91					
Latham	LH3755VT2ProRIB	VT2P,B	AC,P2	87					
Latham	LH3937VT2ProRIB	VT2P,B	AC,P5V	89					
Latham	LH4015VT2Pro	VT2P	AC,P5V	90					
Latham	LH4147VT2ProRIB	VT2P,B	AC,P2	91					
Mustang	2290VT2PRIB	VT2P,B	AC,P2	90					
Mustang	2291VT2PRIB	VT2P,B	AC,P2	91					
Mustang	3286VT2PRIB	VT2P,B	AC,P2	86					
Mustang	3287VT2PRIB	VT2P,B	AC,P2	87					
NK Brand	NK8618-3011A	3011,A	AVC,C2,Vi	86					
NK Brand	NK8920-3120-EZR	3120,B	AVC,C2,Vi	89					
NuTech	5BN-2889	3010	CM,C2,Vi	89					
NuTech	5N-886	3011,A	MQ,P5V,R	86					
NuTech/G2 Gen	E5FN-A386	OI	MQ,P5V,R	86					
Pioneer	P9188AM GC	AM,B	MQ,C2	91					
Pioneer	P9188AMX GC	AMX,B	MQ,C2	91					
Pioneer	P9492AM CK	AM,B	MQ,C2,R,Lu	94					
Proseed	1591VT2PRIB	VT2P,B	AC,P2	91					
Proseed	1689VT2PRIB	VT2P,B	AC,P2	89					
Proseed	1787VT2PRIB	VT2P,B	AC,P2	87					
Proseed	1790VT2PRIB	VT2P,B	AC,P2	90					
Renk	RK287VT2P	VT2P,B	AC,P2	87					
Renk	RK408VT2P	VT2P,B	AC,P2	90					
Thunder	6791VT2P	VT2P,B	AC,P2	91					
Titan Pro	83-87 2P	VT2P,B	AC,P2	87					

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Full-Season Test Products (36 Total)

Company/Brand	Product/Brand	Technol.	Seed Trt.	RM	Company/Brand	Product/Brand	Technol.	Seed Trt.	RM
Anderson	742R	RR2	MQ	92					
Anderson	795R	RR2	MQ	95					
Dahlman	R47-24VT2PRIB	VT2P,B	AC,P2	94					
Dahlman	R48-28VT2PRIB	VT2P,B	AC,P2	95					
Dairyland	DS-7294A	3220	CM,C5,Vi,ln	94					
Enestvedt	E612RR	RR2	CM,C2,Vi	92					
Enestvedt	E652RR	RR2	CM,C2,Vi	95					
Enestvedt	E656SSRIB	STX,B	AC,P5V	95					
Federal	4440VT3PRIB	VT3P,B	AC,P2	94					
Federal	4580VT2PRIB	VT2P,B	AC,P2	95					
Golden Harvest	G90Y04-3220A-EZR	3220,A,B	AVC,C2,Vi	92					
Golden Harvest	G95P13-3110	3110	AVC,C2,Vi	95					
Hefty	H4222VT2P	VT2P	HC	92					
Hefty	H4322VT2P	VT2P	HC	93					
Hefty	H4324SS	STX	HC	93					
Hefty	H4522VT2P	VT2P	HC	95					
Heine	6200VT2PRORIB GC	VT2P,B	AC,P2	95					
Latham	LH4242VT2ProRIB	VT2P,B	AC,P2	92					
Latham	LH4437VT2ProRIB	VT2P,B	AC,P2	94					
Latham	LH4454VT2ProRIB	VT2P,B	AC,P2	94					
Latham	LH4517VT2Pro	VT2P	AC,P5V	95					
LG Seeds	LG44C27VT2PRO	VT2P	AC,P5V	94					
Mustang	3294VT2PRIB	VT2P,B	AC,P2	94					
NK Brand	NK9227-3220A-EZR	3220,A,B	AVC,C2,Vi	92					
NK Brand	NK9505-3110	3110	AVC,C2,Vi	95					
NuTech	5G-293	3110,A	MQ,P5V,R	93					
NuTech	E5GN-A395	3110	AVC,Vi	95					
Pioneer	P9330AM GC	AM,B	MQ,C2,R,Lu	93					
Pioneer	P9492AM CK	AM,B	MQ,C2,R,Lu	94					
Proseed	1794VT2PRIB	VT2P,B	AC,P2	94					
Renk	8-536VT2P	VT2P	AC,P2	94					
Renk	RK433RR	RR2	AC,P2	92					
Renk	RK568VT2P	VT2P,B	AC,P2	94					
Thunder	6992VT2P	VT2P	AC,P5V	92					
Thunder	6993VT2P	VT2P	AC,P2	93					
Titan Pro	82-95 2P	VT2P,B	AC,P2	95					

Footnotes and Abbreviation Descriptions

Brand Footnotes

^	Innotech™ brand seed is distributed by Rob-See-Co, LLC. Phoenix® brand seed is distributed by Advanta Seeds. Power Plus® brand seed is distributed by Burrus. Innotech™ and Phoenix® are trademarks of Syngenta. Power Plus® is a registered trademark of Corteva Agriscience.
CK	Identifies a check product included in early- and full-season tests.
GC	Grower Comparison product included by FIRST when space permits.

Corn Technologies*

3000GT	Agrisure® 3000GT (CB,RW,LL,GT)	E	Enlist™ (2,4-D, glyphosate, fop herbicide tolerance)
3010	Agrisure® 3010 (CB,LL,GT)	GT	Agrisure® GT
3011,A	Agrisure® Artesian® (CB,RW,LL,GT)	HX	Herculex® 1, contains LL
3110	Agrisure® Viptera® 3110 (Vip, CB,LL,GT)	HXRW	Herculex® Rootworm, contains LL
3111	Agrisure® Viptera® 3111 (Vip,CB,RW,LL,GT)	HXT	Herculex® Xtra (HX,HXRW,LL)
3120	Agrisure® 3120 (CB,HX,LL,GT)	LL	LibertyLink®
3122	Agrisure® 3122 (CB,HXX,RW,LL,GT)	None	conventional corn
3220	Agrisure® Viptera® 3220 (Vip,CB,HX,LL,GT)	OI	Optimum® Intrasect®, YHR (YGCB,HX,LL,RR2)
A	Agrisure® Artesian®	OIX	Optimum® Intrasect® Xtra, YXR (YGCB,HXT,LL,RR2)
AM	Optimum® AcreMax® (YGCB,HX,LL,RR2)	OIXT	Optimum® Intrasect® Xtreme (YGCB,HXT,RW,LL,RR2)
AMT	Optimum® AcreMax® TRIsect (HX,RW,LL,RR2)	PC	PowerCore™ (HX, VT2P)
AMX	Optimum® AcreMax® Xtra (YGCB,HXT,LL,RR2)	RR2	Roundup Ready® 2 Corn
AMXT	Optimum® AcreMax® Xtreme (YGCB,HXT,RW,LL,RR2)	RW	Agrisure® Rootworm
AQ	Optimum® AQUAMax®	STX	SmartStax® (VT3P,HXT,RR2,LL)
B	Refuge blend product	VT2P	Genuity® VT Double PRO®
CB	Agrisure® Corn Borer	VT3P	Genuity® VT Triple PRO®
DG	Genuity® DroughtGard®	YGCB	YieldGard® Corn Borer

* The refuge component genetics may vary in a refuge blend seed product.

Corn Seed Treatments**

?	information not provided	Lu	Lumivia™
A	Allegiance®	M	Maxim XL®
AC	Acceleron® fungicide products	MQ	Maxim Quattro®
AL2500	Alert 2500	None	untreated
At	Actellic®	P2, P5, P1	Poncho® at 0.25, 0.5 and 1.25 mg ai/seed, respectively
AVC	Avicta® Complete Corn	R	Raxil®
C2, C5, C1	Cruiser® at 0.25, 0.5 and 1.25 mg ai/seed, respectively	Sa	Sativa™
CE	Cruiser Extreme®	Se	Sebring™
CM	CruiserMaxx® Corn	Sn	Senator™
D	Dynasty®	Sp	Spirato™
Es	Escalate®	SC	SHIELDCoat™
HC	Hefty Complete	V	Votivo®
In	Intego™ Solo	Vi	Vibrance®
L	Lorsban®		

** Seed treatments may include unspecified plant health promoting components.